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- 1 [Communications of the ACM; Volume 52 Issue 4](#)
◆ April 2009 Communications of the ACM
Publisher: ACM
 Full text available: [Digital Edition](#), [Pdf \(7.58 MB\)](#) Additional Information: [full citation](#)
- 2 [Enhancing learning management systems to better support computer science education](#)
◆ Guido Rößling, Mike Joy, Andrés Moreno, Atanas Radenski, Lauri Malmi, Andreas Kerren, Thomas Naps, Rockford J. Ross, Michael Clancy, Ari Korhonen, Rainer Oechslie, J. Ángel Velázquez Iturbide
 November **SI GCSE Bulletin**, Volume 40 Issue 4 2008
Publisher: ACM
 Full text available: [Pdf \(435.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 6358, Downloads (12 Months): 6358, Citation Count: 0

Many individual instructors -- and, in some cases, entire universities -- are gravitating towards the use of comprehensive learning management systems (LMSs), such as Blackboard and Moodle, for managing courses and enhancing student learning. As useful ...

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Keywords: CALMS, LMS, computer science education, computing augmented learning management system, learning management system

3 Principled design of the modern Web architecture



Roy T. Fielding, Richard N. Taylor

May 2002 **Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM

Full text available: Pdf (335.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 73, Downloads (12 Months): 495, Citation Count: 21

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, ...

Keywords: Network-based applications, REST, World Wide Web

4 Server-centric Web frameworks: An overview



Iwan Vosloo, Derrick G. Kourie

April 2008 **Computing Surveys (CSUR)**, Volume 40 Issue 2

Publisher: ACM

Full text available: Pdf (254.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 110, Downloads (12 Months): 2214, Citation Count: 0

Most contemporary Web frameworks may be classified as server-centric. An overview of such Web frameworks is presented. It is based on information gleaned from surveying 80 server-centric Web frameworks, as well as from popular related specifications. ...

Keywords: Architecture, specification techniques, user interfaces, web frameworks

5 Queue: Volume 6 Issue 5



September 2008

Queue

Publisher: ACM

Full text available: Digital Edition , Pdf (6.07 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 472, Citation Count: 0

6 The Desert environment



Steven P. Reiss

October 1999 **Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 4

Publisher: ACM

Full text available: Pdf (868.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 57, Citation Count: 8

The Desert software engineering environment is a suite of tools developed to enhance programmer productivity through increased tool integration. It introduces an inexpensive form of data integration to provide additional tool capabilities and information ...

Keywords: integrated programming environments, program editors

7 [Evolving a language in and for the real world: C++ 1991-2006](#)

 **Author:** Bjarne Stroustrup

June 2007 **HOPL III:** Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Additional Information: [full citation](#),

[appendices and](#)

[supplements](#),

[abstract](#), [references](#),

[index terms](#)

Full text available:  [Moy](#) (60:46 MIN),  [Pdf](#) (838.10 KB)

Bibliometrics: Downloads (6 Weeks): 73, Downloads (12 Months): 678, Citation Count: 0

This paper outlines the history of the C++ programming language from the early days of its ISO standardization (1991), through the 1998 ISO standard, to the later stages of the C++0x revision of that standard (2006). The emphasis is on the ideals, constraints, ...

Keywords: C++, ISO, STL, evolution, history, language use, libraries, multi-paradigm programming, programming language, standardization

8 [Communications of the ACM: Volume 51 Issue 2](#)

 February 2008 **Communications of the ACM**

Publisher: ACM

Full text available:  [Digital Edition](#),  [Pdf](#) (3.89 MB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 300, Downloads (12 Months): 2352, Citation Count: 0

9 [From representations to computations: the evolution of web architectures](#)

 Justin R. Erenkrantz, Michael Gorlick, Girish Suryanarayana, Richard N. Taylor

September 2007 **ESEC-FSE '07:** Proceedings of the the 6th joint meeting of the European software engineering conference and the ACM SIGSOFT symposium on The foundations of software engineering

Publisher: ACM

Full text available:  [Pdf](#) (416.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 330, Citation Count: 3

REpresentational State Transfer (REST) guided the creation and expansion of the modern web. What began as an internet-scale distributed hypermedia system is now a vast sea of shared and interdependent services. However, despite the expressive power of ...

Keywords: mobile code, network continuations, representational state transfer, web services

10 [Communications of the ACM: Volume 52 Issue 5](#)

 May 2009 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.31 MB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 6076, Downloads (12 Months): 6076, Citation Count: 0

11 [Class notes: don't be a WIMP: \(http://www.not-for-wimps.org\)](#)

 Johannes Behr, Dirk Reiners

August 2008 **SIGGRAPH '08: SIGGRAPH 2008 classes**

Publisher: ACM

Full text available:  Mov (93:28 MIN),  Pdf (6.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 370, Citation Count: 0

Virtual and augmented reality have been around for a long time, but for most people they are movie fantasies. Very few people outside a few research labs have worked with or experienced these systems for themselves. On the other hand, interactive 3D ...

12 [Queue: Volume 6 Issue 3](#)

 May 2008

Queue

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (5.56 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 78, Downloads (12 Months): 576, Citation Count: 0

13 [The <bigwig> project](#)

 Claus Brabrand, Anders Møller, Michael L. Schwartzbach

May 2002 **Transactions on Internet Technology (TOIT)** , Volume 2 Issue 2

Publisher: ACM

Full text available:  Pdf (586.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 71, Citation Count: 25

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services. A fundamental aspect of the development of the World Wide Web during the last ...

Keywords: Interactive Web services, program analysis

14 [Communications of the ACM: Volume 52 Issue 2](#)

 February 2009 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.09 MB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 934, Downloads (12 Months): 2598, Citation Count: 0

15 Queue: Volume 7 Issue 1

 January 2009

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (2.84 MB)

Queue

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 96, Downloads (12 Months): 246, Citation Count: 0

16 Self

 David Ungar, Randall B. Smith

June 2007 **HOPL III:** Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Additional Information: [full citation](#), [appendices](#)

Full text available:  Mov (53:9 MIN),  Pdf (1.70 MB)

[and supplements](#),
[abstract](#), [references](#),
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Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 459, Citation Count: 1

The years 1985 through 1995 saw the birth and development of the language Self, starting from its design by the authors at Xerox PARC, through first implementations by Ungar and his graduate students at Stanford University, and then with a larger team ...

Keywords: Self, adaptive optimization, cartoon animation, dynamic language, dynamic optimization, exploratory programming, history of programming languages, morphic, object-oriented language, programming environment, prototype-based programming language, virtual machine

17 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

 Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **Transactions on Information Systems (TOIS)** , Volume 22 Issue 2

Publisher: ACM

Full text available:  Pdf (316.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 403, Citation Count: 18

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

Keywords: applications., definitions, foundations, taxonomy

18 Communications of the ACM: Volume 52 Issue 3

 March 2009 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.04 MB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 1553, Downloads (12 Months): 2210, Citation Count: 0

19 [An open-source CVE for programming education: a case study](#)

 [Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks](#)

July **SIGGRAPH '05: SIGGRAPH 2005 Courses**

2005

Publisher: ACM

Full text available:  Pdf (7.92 MB)

Additional Information: [full citation](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 346, Citation Count: 0

20 [Computing curricula 2001](#)

 [CORPORATE The Joint Task Force on Computing Curricula](#)

September **Journal on Educational Resources in Computing (JERIC)**,

2001 Volume 1 Issue 3es

Publisher: ACM

Full text available:  Html (2.78 KB),  Pdf (613.63 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 135, Downloads (12 Months): 1276, Citation Count: 25

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